

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090223\
 Data File : VN079148.D
 Acq On : 02 Sep 2023 17:11
 Operator : JC\MD
 Sample : 04256-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1

Quant Time: Sep 04 01:06:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

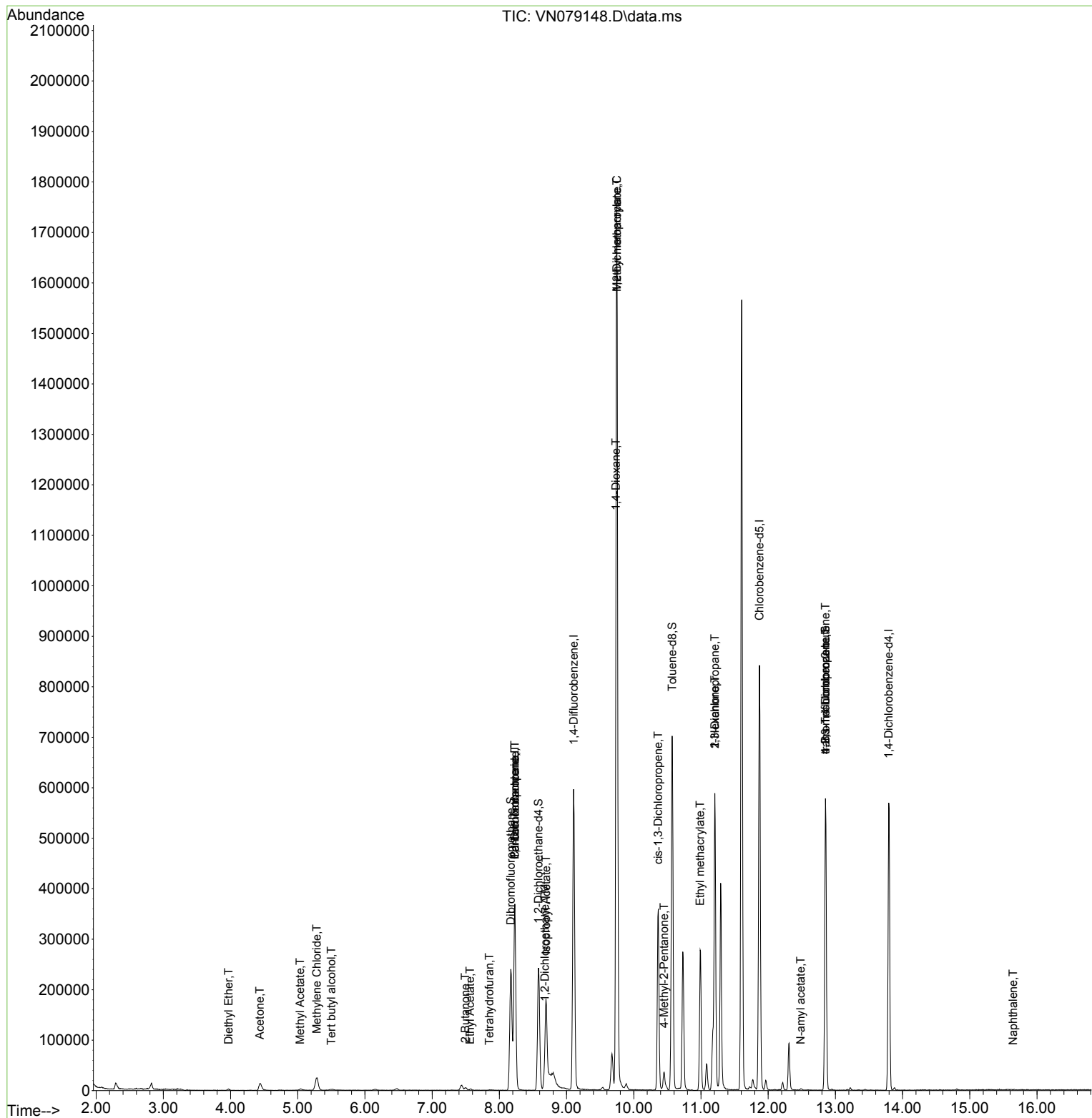
Internal Standards						
1) Pentafluorobenzene	8.230	168	265605	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	515018	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	500225	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	158639	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	200241	48.449	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.900%		
35) Dibromofluoromethane	8.171	113	176305	50.855	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.700%		
50) Toluene-d8	10.571	98	489759	38.046	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	76.100%#		
62) 4-Bromofluorobenzene	12.853	95	205298	48.793	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.580%		
Target Compounds						Qvalue
8) Diethyl Ether	3.971	74	1303	0.625	ug/l	65
11) Tert butyl alcohol	5.500	59	2335	3.367	ug/l #	72
16) Acetone	4.436	43	27083	15.881	ug/l	100
18) Methyl Acetate	5.036	43	3198	0.444	ug/l	96
20) Methylene Chloride	5.283	84	19887	5.472	ug/l #	93
25) 2-Butanone	7.494	43	9054	3.311	ug/l #	85
29) Tetrahydrofuran	7.853	42	632	0.349	ug/l #	32
31) Cyclohexane	8.230	56	5905	Below Cal	#	24
36) 1,1-Dichloropropene	8.230	75	22449	4.305	ug/l #	47
37) Ethyl Acetate	7.565	43	4287	0.735	ug/l #	76
38) Carbon Tetrachloride	8.230	117	27959	5.351	ug/l #	16
42) 1,2-Dichloroethane	8.677	62	1293	0.225	ug/l #	73
43) Isopropyl Acetate	8.694	43	223453	21.667	ug/l #	77
45) 1,2-Dichloropropane	9.747	63	1987	0.484	ug/l #	45
48) Methyl methacrylate	9.747	41	151107	32.334	ug/l #	26
49) 1,4-Dioxane	9.735	88	64	0.804	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	30074	4.917	ug/l #	78
54) cis-1,3-Dichloropropene	10.365	75	64462	9.929	ug/l #	67
56) Ethyl methacrylate	10.988	69	1550	0.264	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5827	0.859	ug/l #	42
59) 2-Hexanone	11.206	43	71694	16.183	ug/l #	47
74) N-amyl acetate	12.482	43	1860	0.279	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	105322	27.554	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	105322	70.388	ug/l #	15
95) Naphthalene	15.647	128	557	2.647	ug/l #	70

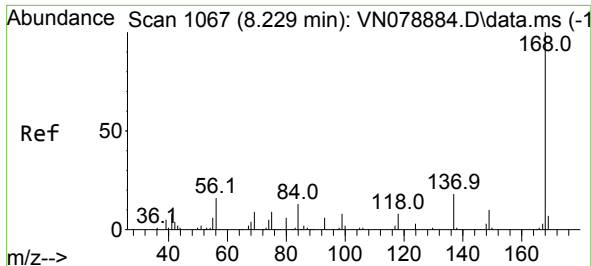
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MW-1

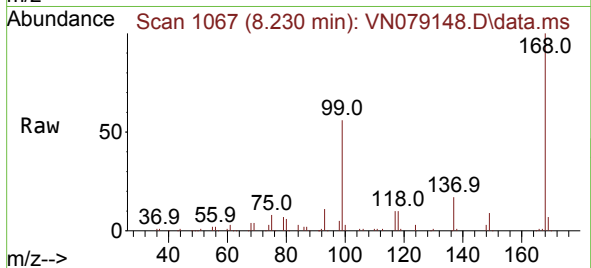
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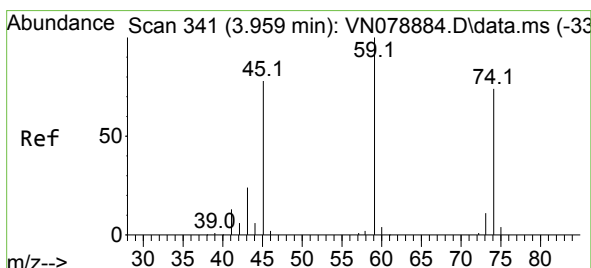
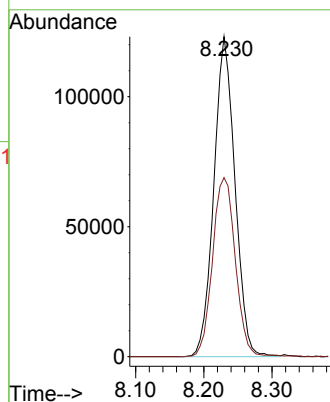
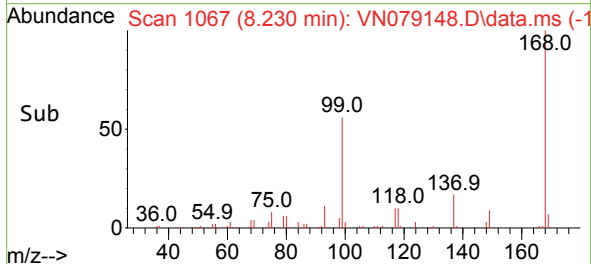


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

Instrument :
MSVOA_N
ClientSampleId :
MW-1

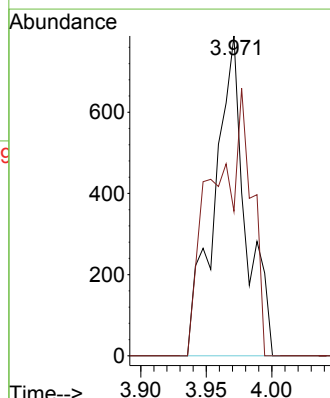
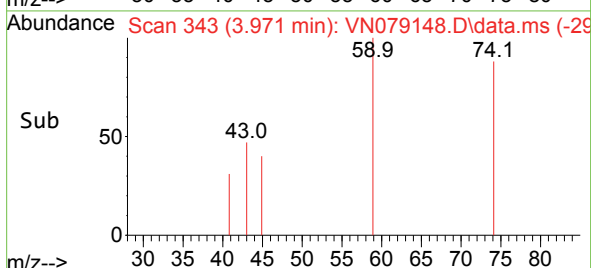
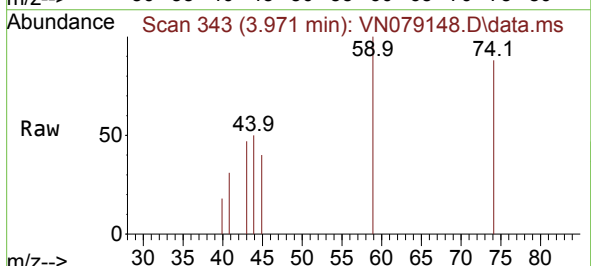


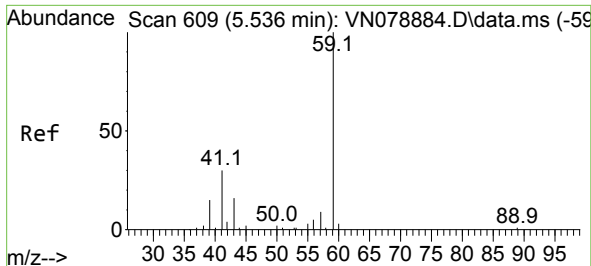
Tgt Ion:168 Resp: 265605
Ion Ratio Lower Upper
168 100
99 55.9 53.0 79.6



#8
Diethyl Ether
Concen: 0.625 ug/l
RT: 3.971 min Scan# 343
Delta R.T. 0.000 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

Tgt Ion: 74 Resp: 1303
Ion Ratio Lower Upper
74 100
45 40.4 34.4 103.3

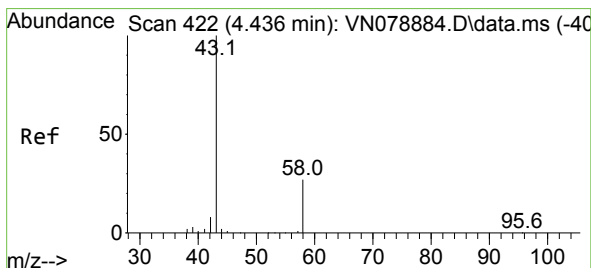
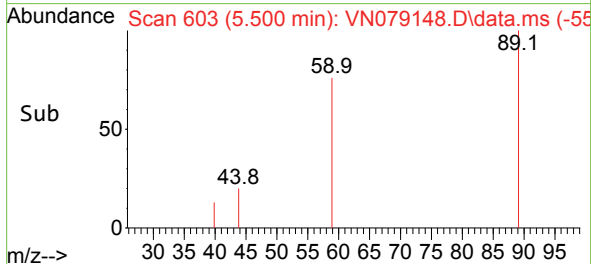
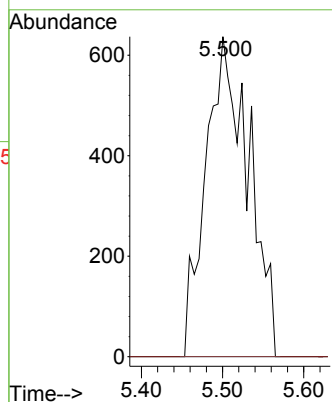
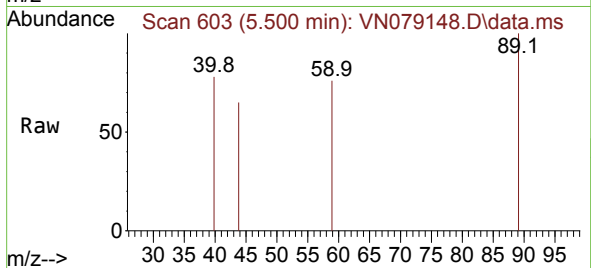




#11
Tert butyl alcohol
Concen: 3.367 ug/l
RT: 5.500 min Scan# 609
Delta R.T. -0.042 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

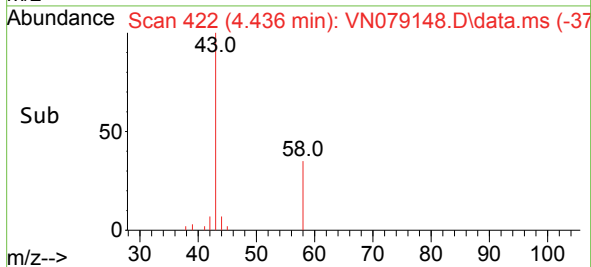
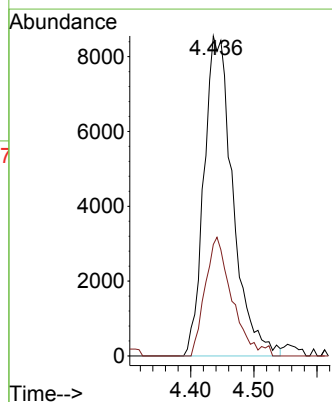
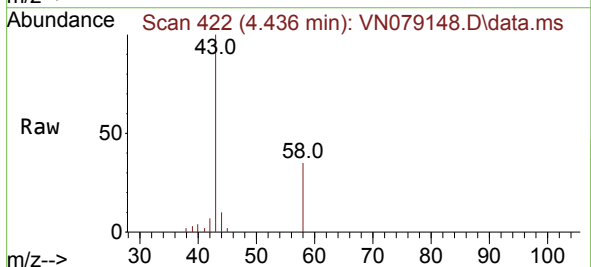
Instrument :
MSVOA_N
ClientSampleId :
MW-1

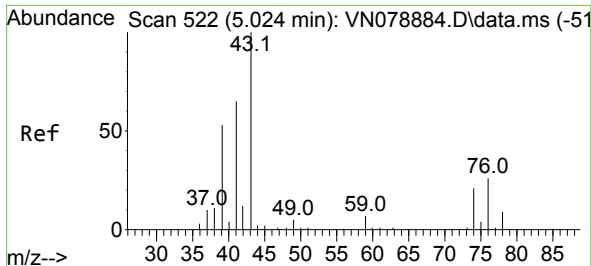
Tgt Ion: 59 Resp: 2335
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 15.881 ug/l
RT: 4.436 min Scan# 422
Delta R.T. -0.006 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

Tgt Ion: 43 Resp: 27083
Ion Ratio Lower Upper
43 100
58 34.9 28.0 42.0

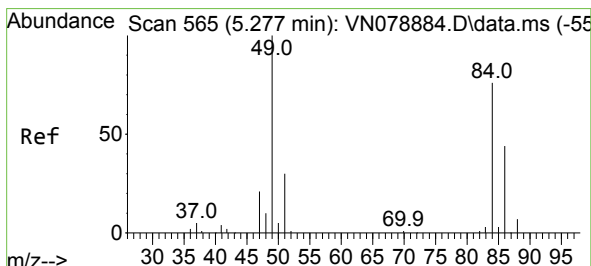
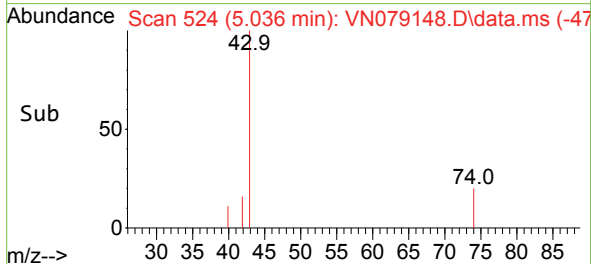
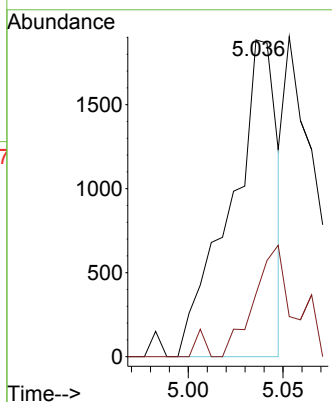
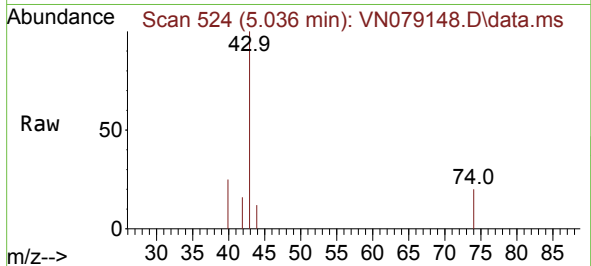




#18
Methyl Acetate
Concen: 0.444 ug/l
RT: 5.036 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

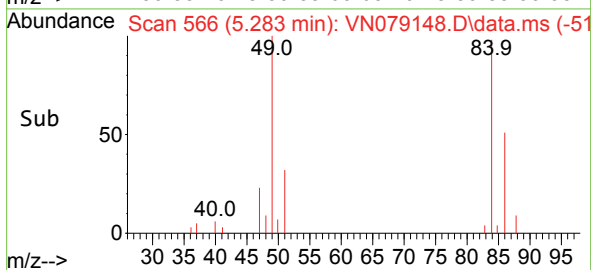
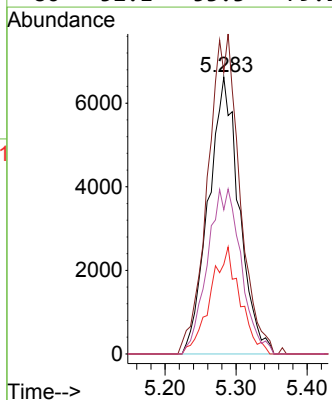
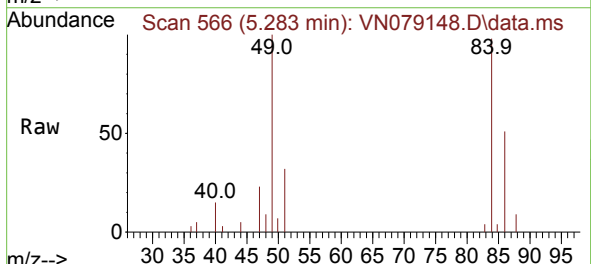
Instrument :
MSVOA_N
ClientSampleId :
MW-1

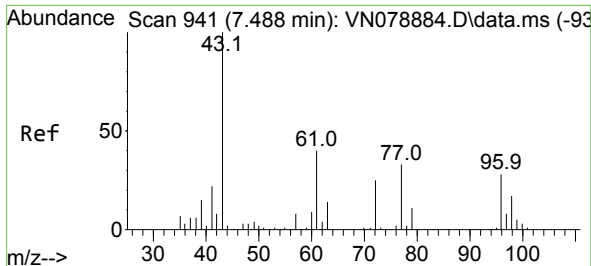
Tgt Ion: 43 Resp: 3198
Ion Ratio Lower Upper
43 100
74 30.5 26.2 39.4



#20
Methylene Chloride
Concen: 5.472 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

Tgt Ion: 84 Resp: 19887
Ion Ratio Lower Upper
84 100
49 101.7 79.7 119.5
51 32.4 25.2 37.8
86 52.1 53.3 79.9#

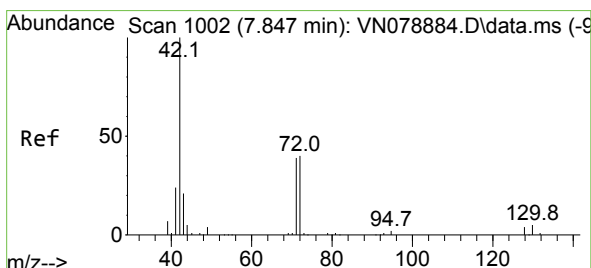
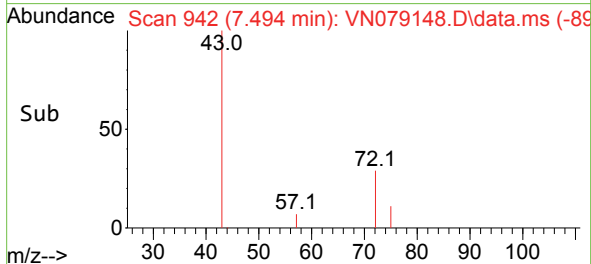
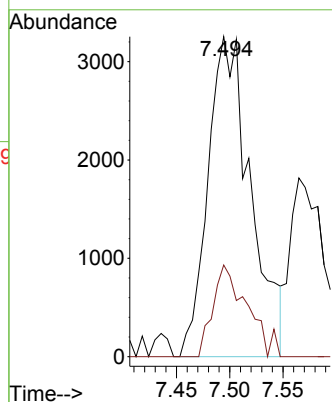
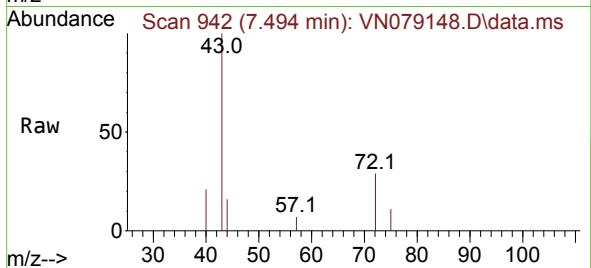




#25
2-Butanone
Concen: 3.311 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

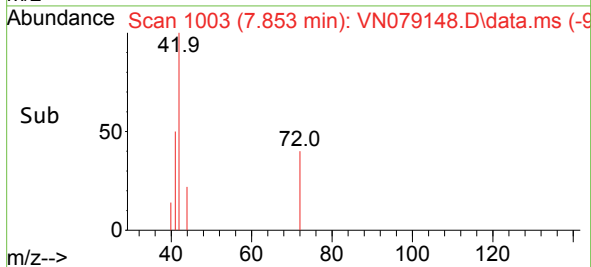
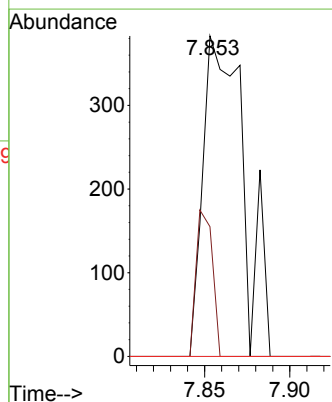
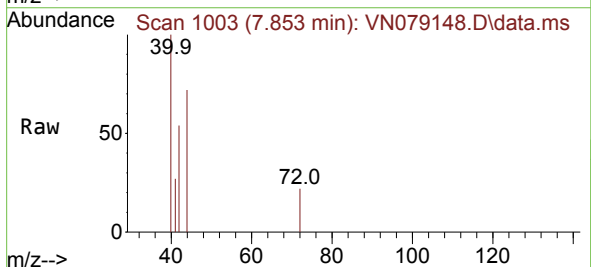
Instrument :
MSVOA_N
ClientSampleId :
MW-1

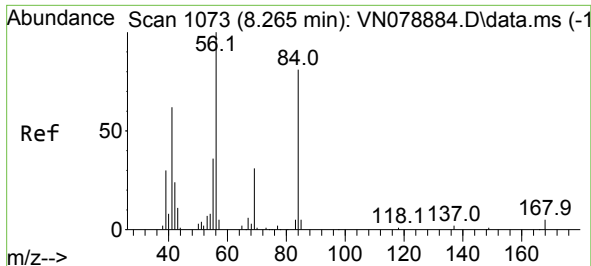
Tgt Ion: 43 Resp: 9054
Ion Ratio Lower Upper
43 100
72 28.6 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.349 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

Tgt Ion: 42 Resp: 632
Ion Ratio Lower Upper
42 100
72 18.4 49.8 74.6#
71 0.0 47.4 71.2#

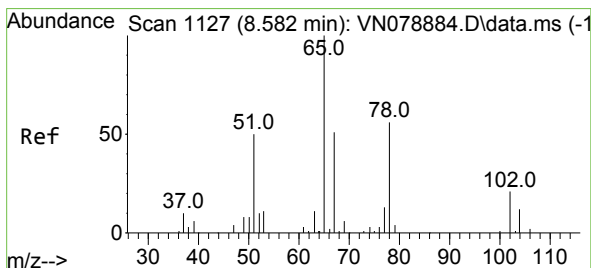
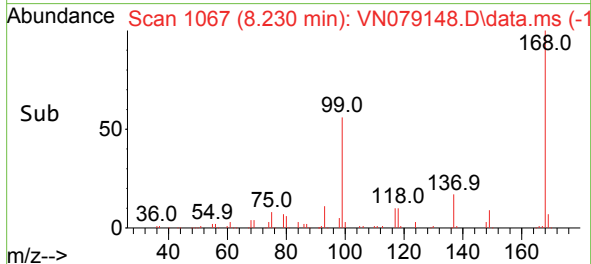
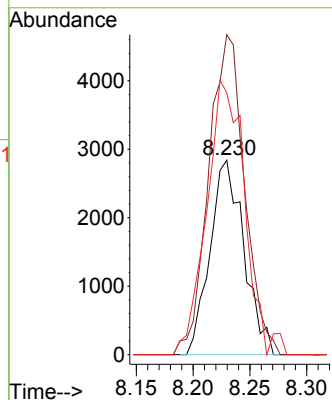
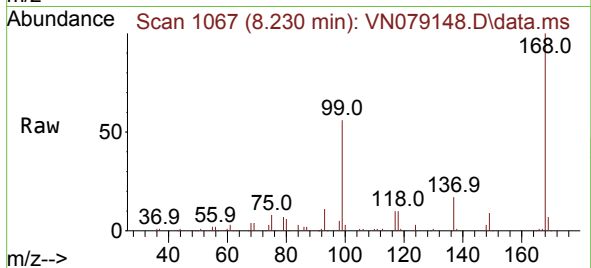




#31
Cyclohexane
Concen: Below Cal
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

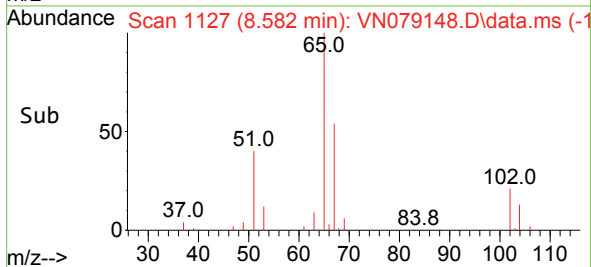
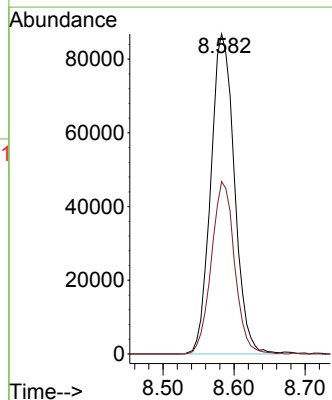
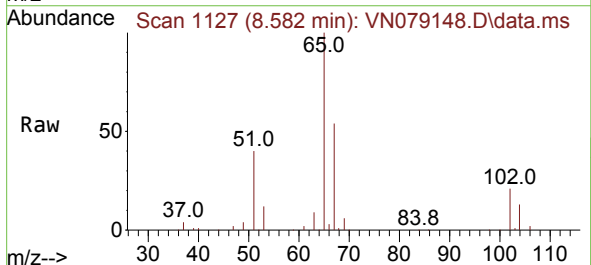
Instrument :
MSVOA_N
ClientSampleId :
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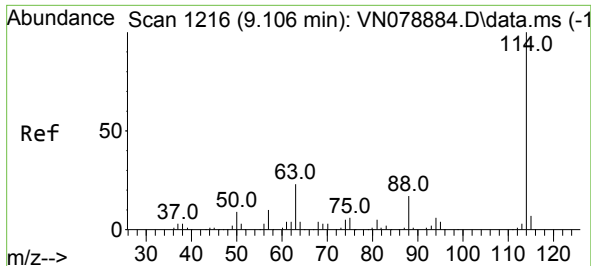
Tgt Ion: 56 Resp: 5905
Ion Ratio Lower Upper
56 100
69 164.6 26.8 40.2#
84 127.7 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 48.449 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.001 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

Tgt Ion: 65 Resp: 200241
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.6

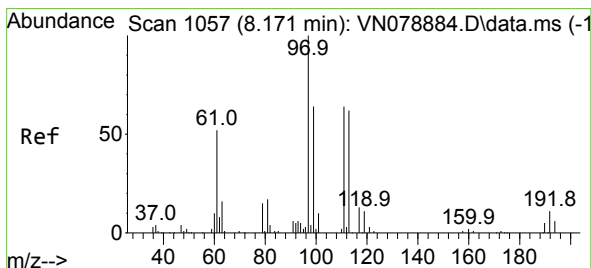
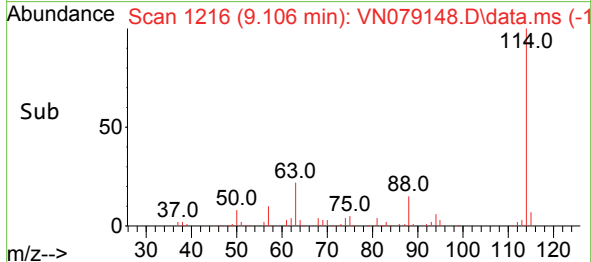
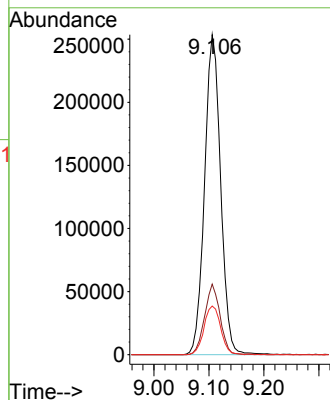
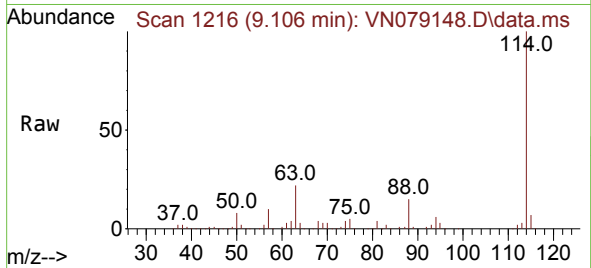




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

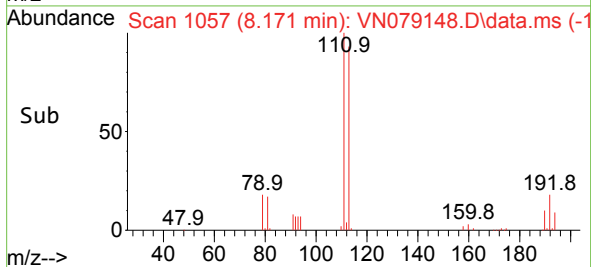
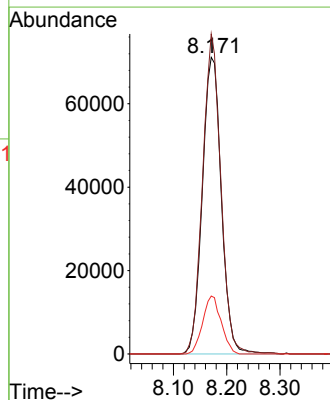
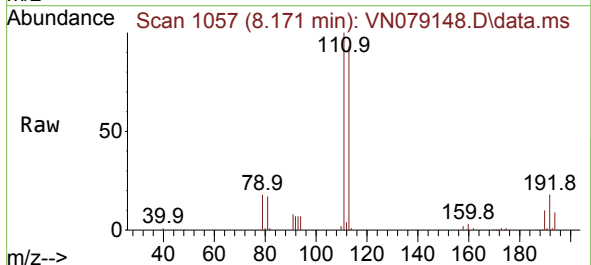
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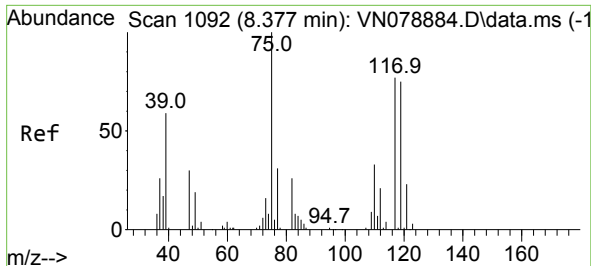
Tgt Ion:114 Resp: 515018
Ion Ratio Lower Upper
114 100
63 22.1 0.0 36.4
88 15.2 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.855 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

Tgt Ion:113 Resp: 176305
Ion Ratio Lower Upper
113 100
111 103.1 82.6 123.8
192 18.9 12.7 19.1

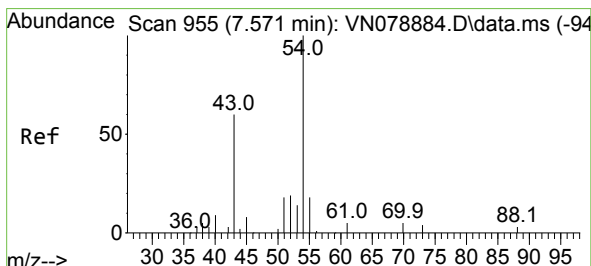
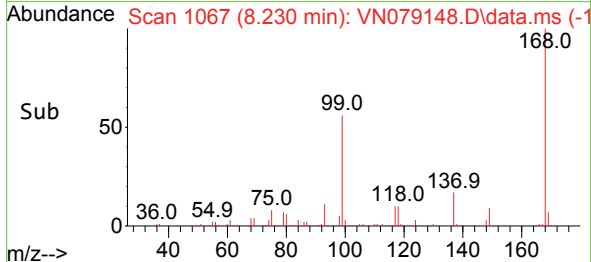
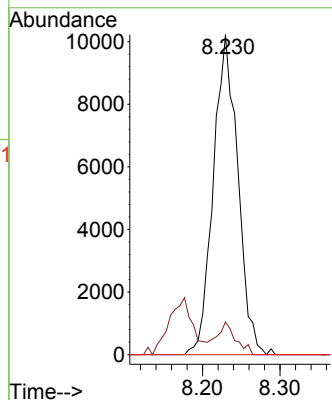
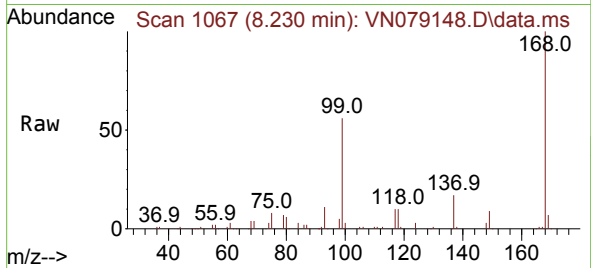




#36
1,1-Dichloropropene
Concen: 4.305 ug/l
RT: 8.230 min Scan# 1092
Delta R.T. -0.147 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

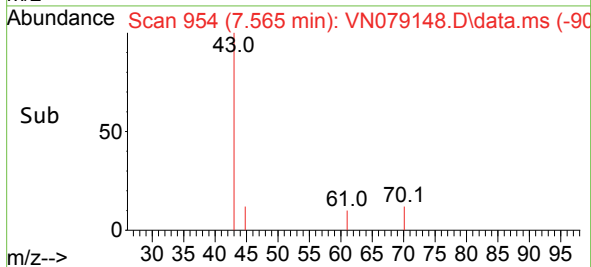
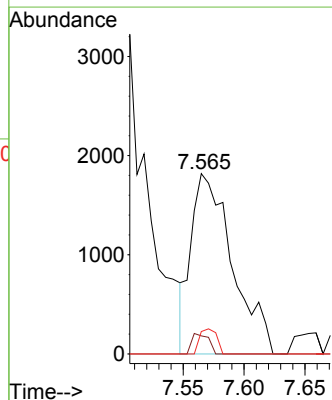
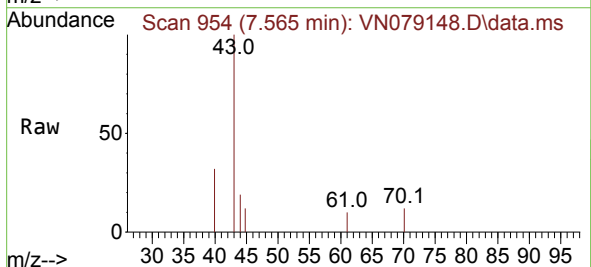
Instrument :
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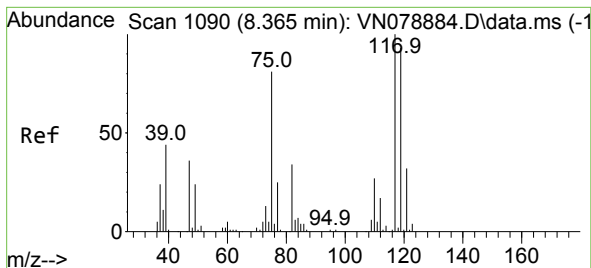
Tgt Ion: 75 Resp: 22449
Ion Ratio Lower Upper
75 100
110 7.9 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.735 ug/l
RT: 7.565 min Scan# 954
Delta R.T. -0.006 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

Tgt Ion: 43 Resp: 4287
Ion Ratio Lower Upper
43 100
61 4.6 13.2 19.8#
70 5.7 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.351 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VN079148.D

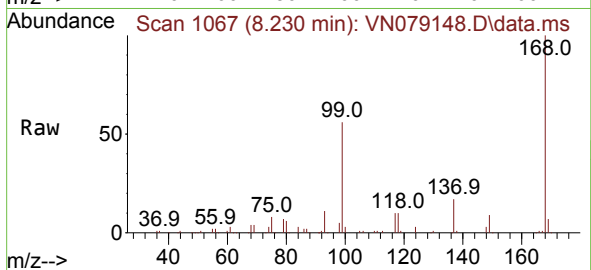
Acq: 02 Sep 2023 17:11

Instrument :

MSVOA_N

ClientSampleId :

MW-1



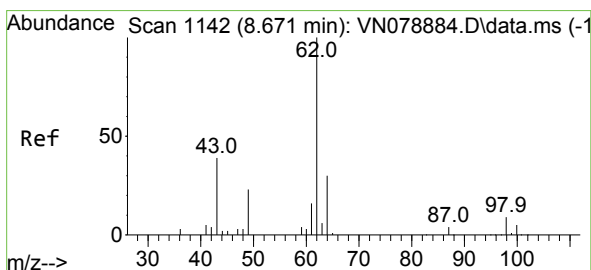
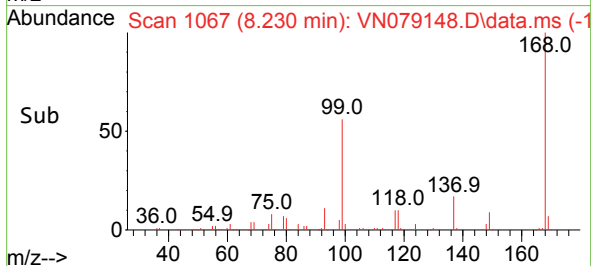
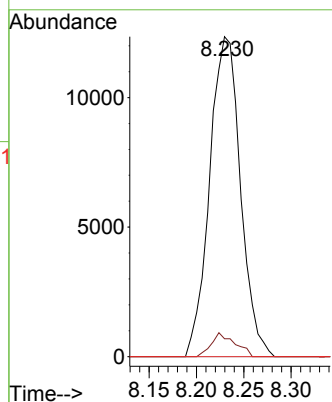
Tgt Ion:117 Resp: 27959

Ion Ratio Lower Upper

117 100

119 5.6 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.225 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VN079148.D

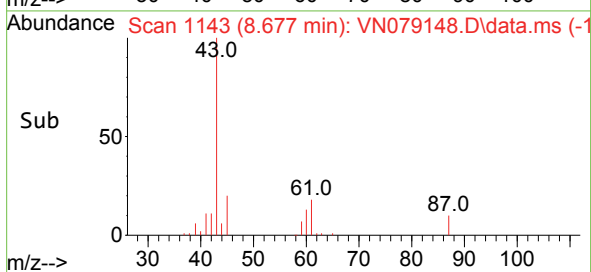
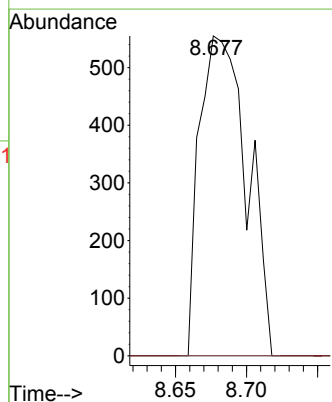
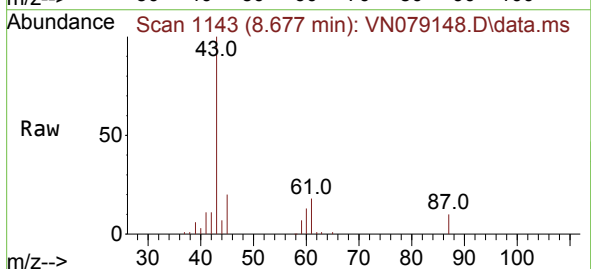
Acq: 02 Sep 2023 17:11

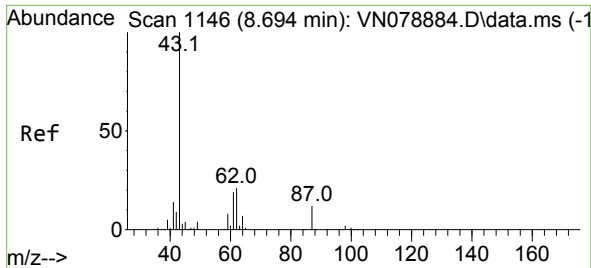
Tgt Ion: 62 Resp: 1293

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

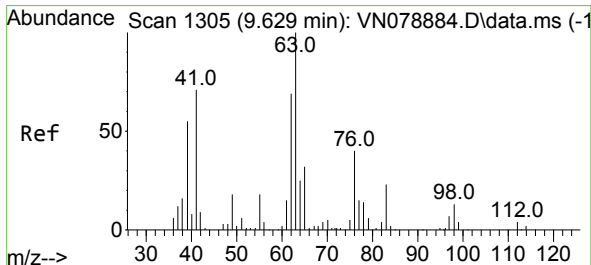
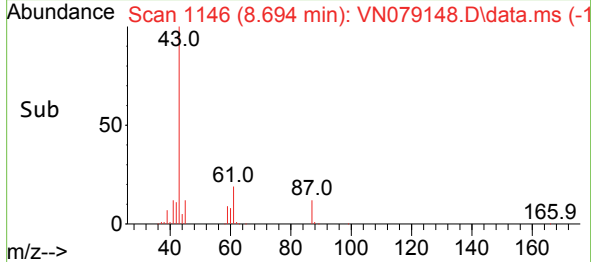
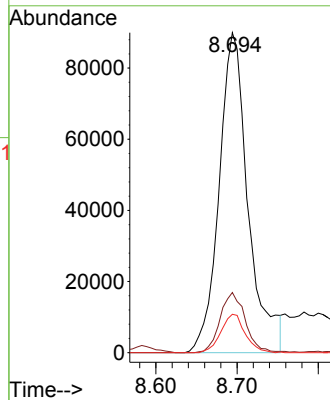
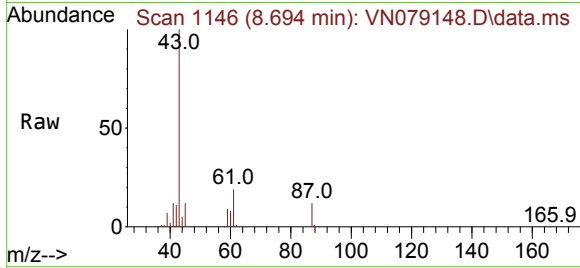




#43
Isopropyl Acetate
Concen: 21.667 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

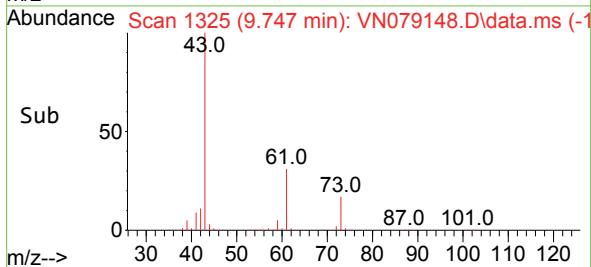
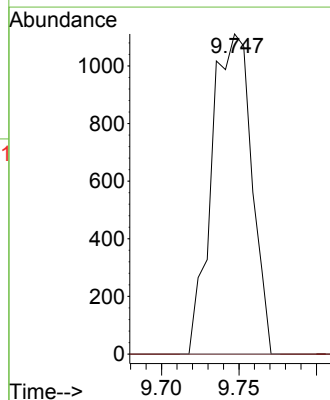
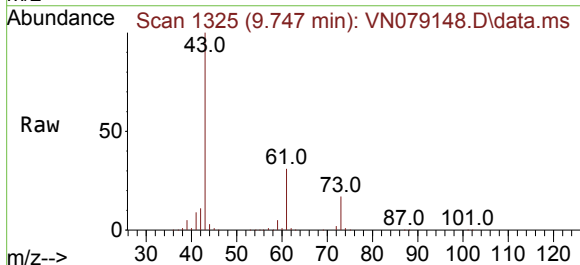
Instrument :
MSVOA_N
ClientSampleId :
MW-1

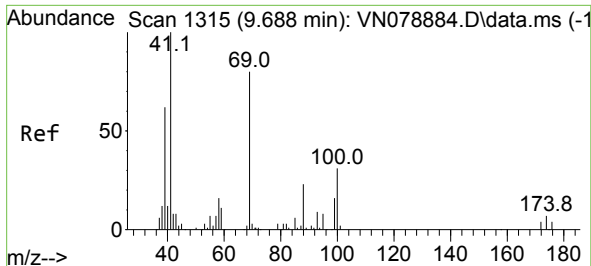
Tgt Ion: 43 Resp: 223453
Ion Ratio Lower Upper
43 100
61 16.5 24.7 37.1#
87 10.1 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.484 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

Tgt Ion: 63 Resp: 1987
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

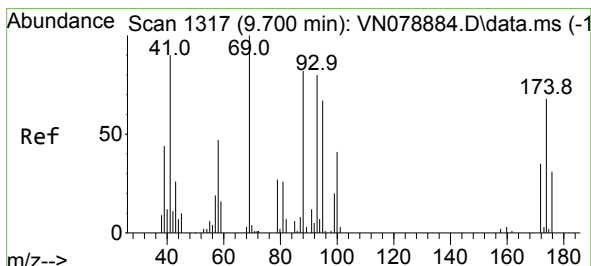
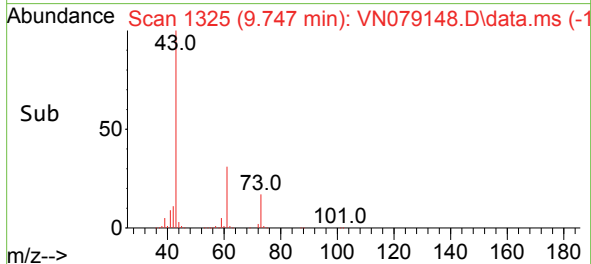
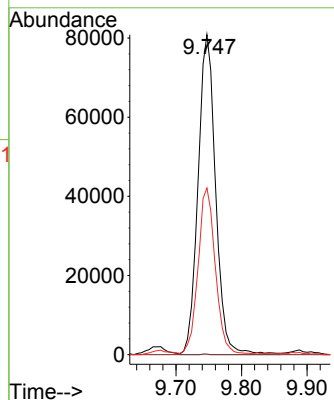
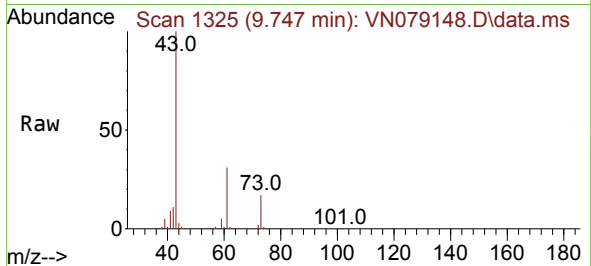




#48
Methyl methacrylate
Concen: 32.334 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

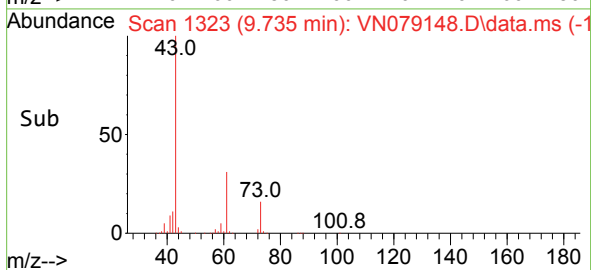
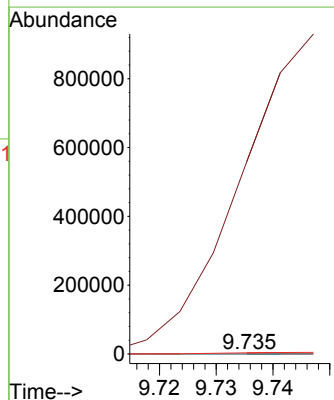
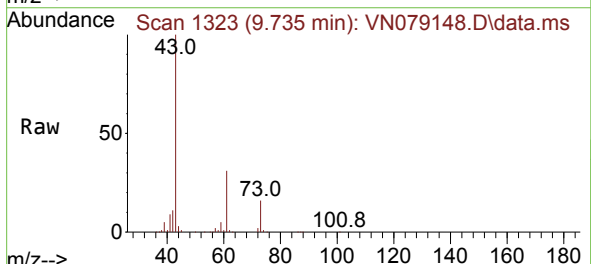
Instrument :
MSVOA_N
ClientSampleId :
MW-1

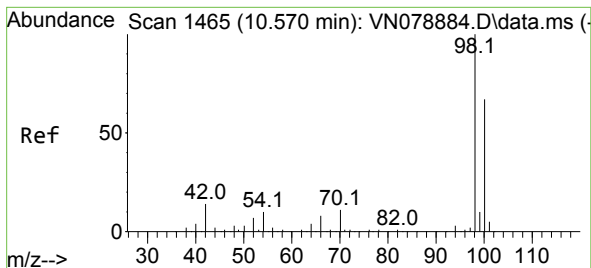
Tgt Ion: 41 Resp: 151107
Ion Ratio Lower Upper
41 100
69 0.1 90.4 135.6#
39 50.6 54.6 81.8#



#49
1,4-Dioxane
Concen: 0.804 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.035 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 2605775.0 17.0 25.6#
58 13517.2 47.0 70.4#

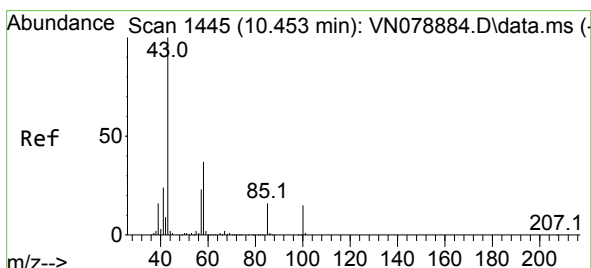
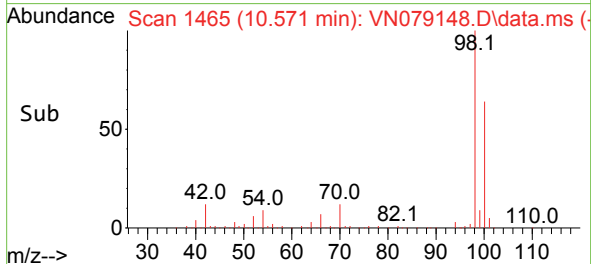
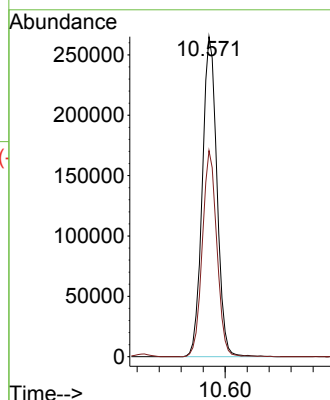
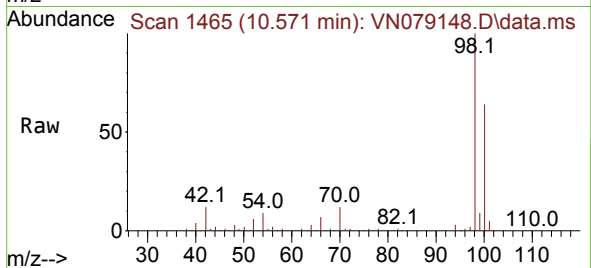




#50
Toluene-d8
Concen: 38.046 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

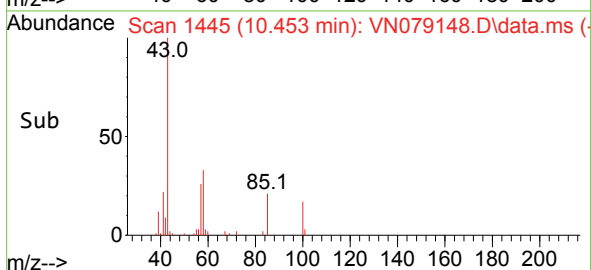
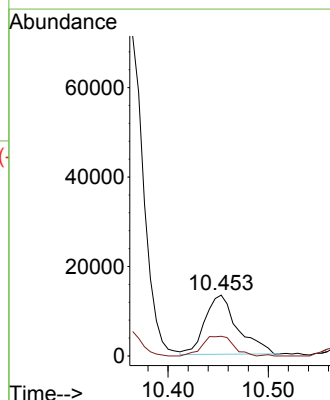
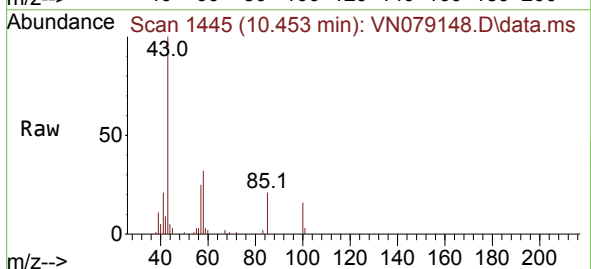
Instrument :
MSVOA_N
ClientSampleId :
MW-1

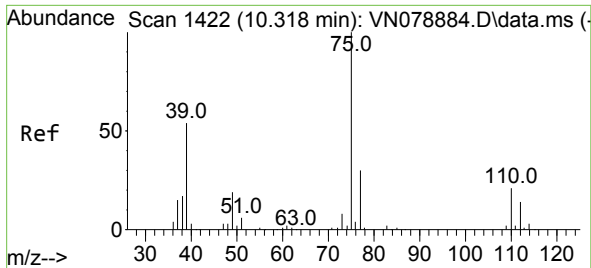
Tgt Ion: 98 Resp: 489759
Ion Ratio Lower Upper
98 100
100 64.0 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 4.917 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN079148.D
Acq: 02 Sep 2023 17:11

Tgt Ion: 43 Resp: 30074
Ion Ratio Lower Upper
43 100
58 31.4 36.6 54.8#

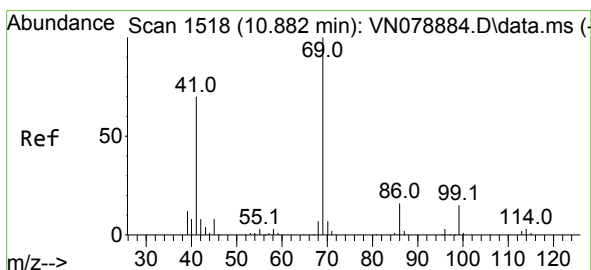
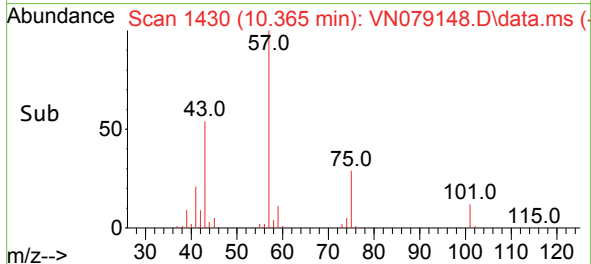
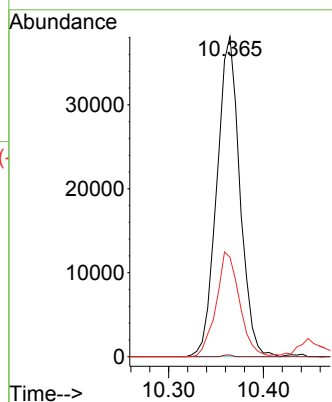
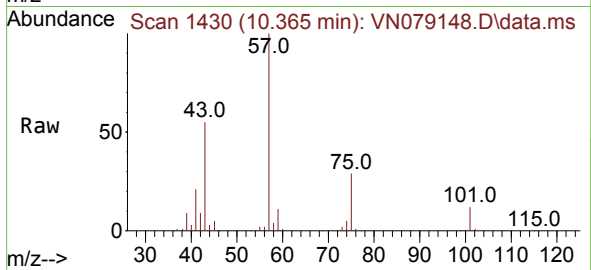




#54
 cis-1,3-Dichloropropene
 Concen: 9.929 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN079148.D
 Acq: 02 Sep 2023 17:11

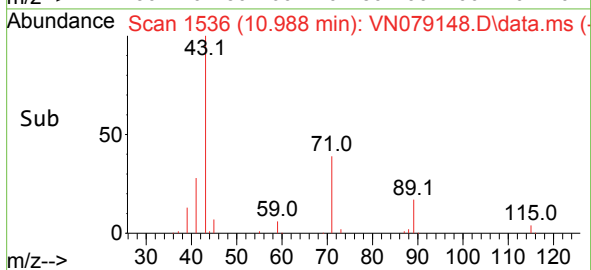
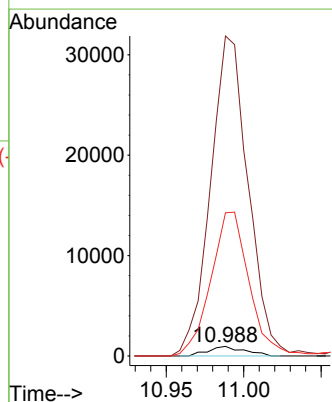
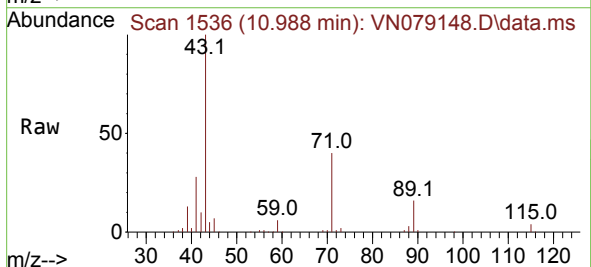
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1

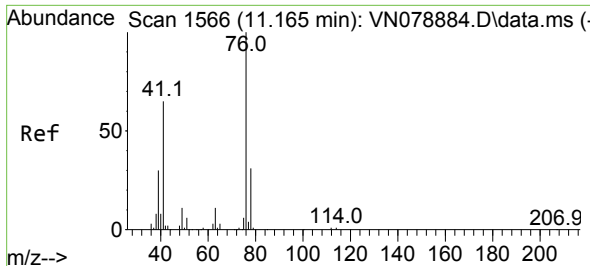
Tgt Ion: 75 Resp: 64462
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.1 39.1#
 39 31.1 31.6 47.4#



#56
 Ethyl methacrylate
 Concen: 0.264 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.111 min
 Lab File: VN079148.D
 Acq: 02 Sep 2023 17:11

Tgt Ion: 69 Resp: 1550
 Ion Ratio Lower Upper
 69 100
 41 3495.2 39.6 59.4#
 39 1594.7 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 0.859 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN079148.D

Acq: 02 Sep 2023 17:11

Instrument :

MSVOA_N

ClientSampleId :

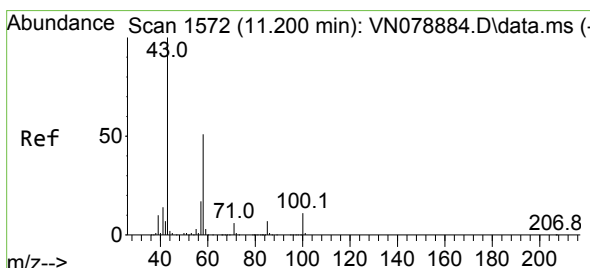
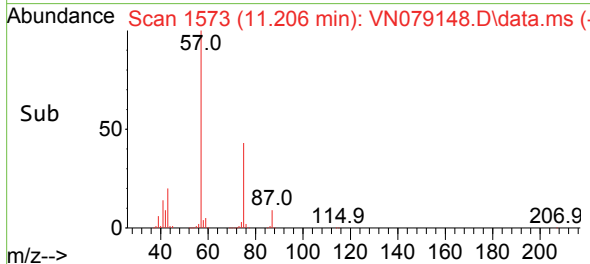
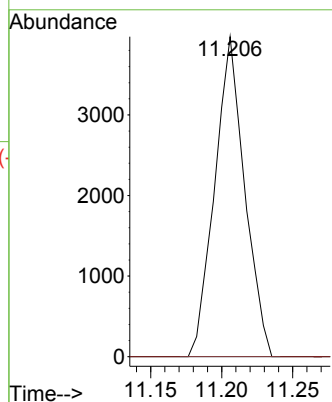
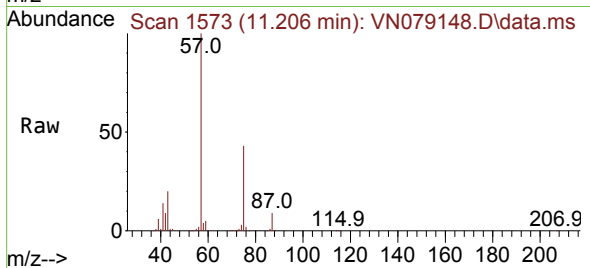
MW-1

Tgt Ion: 76 Resp: 5827

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 16.183 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN079148.D

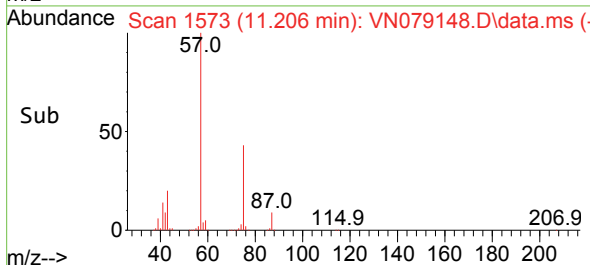
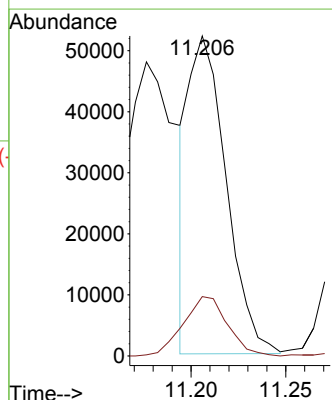
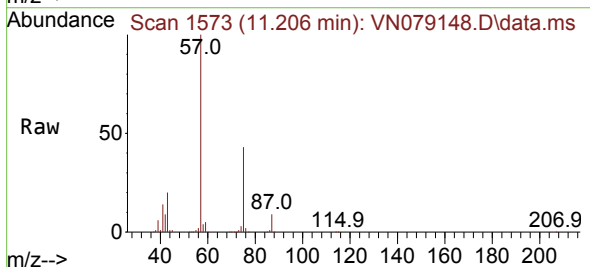
Acq: 02 Sep 2023 17:11

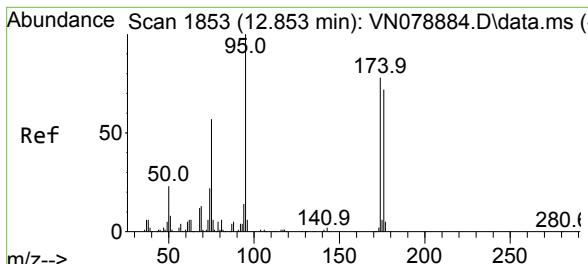
Tgt Ion: 43 Resp: 71694

Ion Ratio Lower Upper

43 100

58 22.1 31.7 95.1#

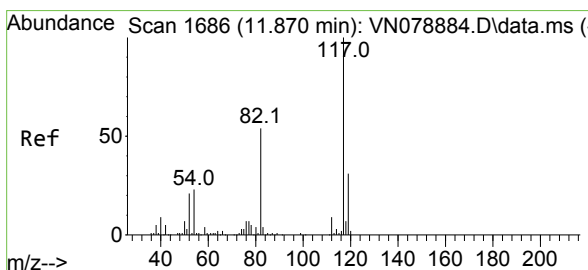
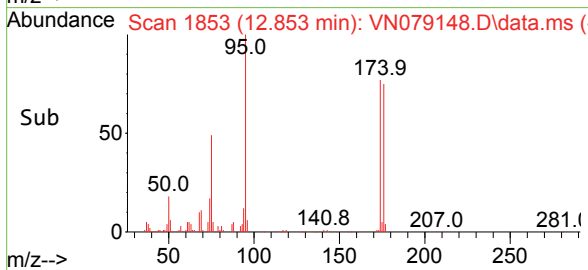
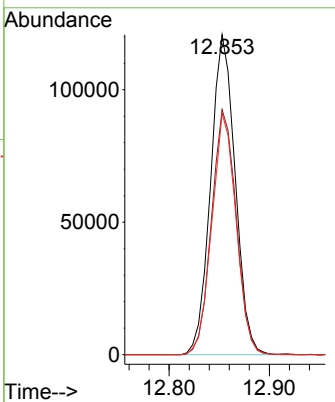
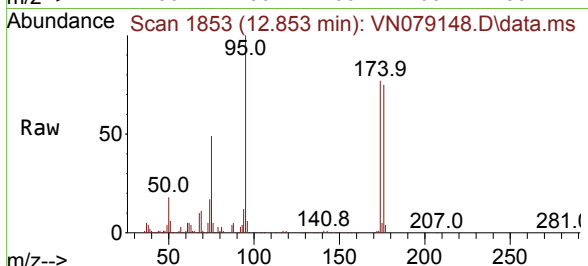




#62
 4-Bromofluorobenzene
 Concen: 48.793 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN079148.D
 Acq: 02 Sep 2023 17:11

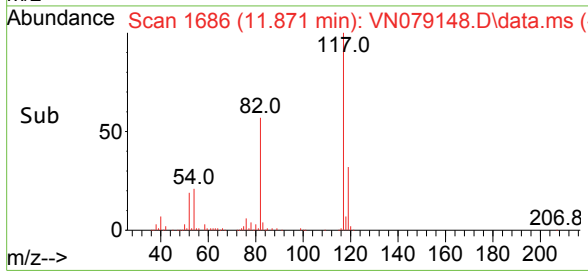
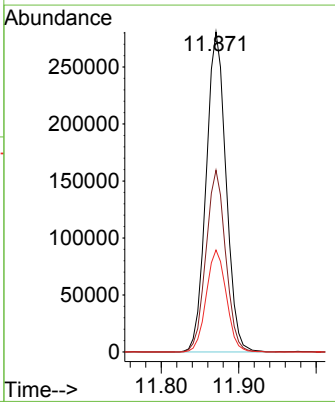
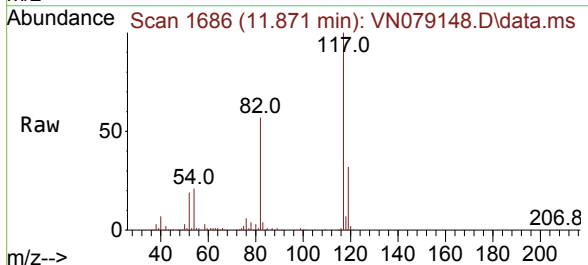
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1

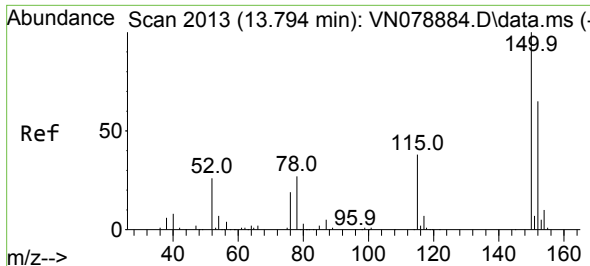
Tgt Ion:	95	Resp:	205298
Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	143.8
176	74.3	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: VN079148.D
 Acq: 02 Sep 2023 17:11

Tgt Ion:	117	Resp:	500225
Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.0	66.0
119	31.8	25.6	38.4

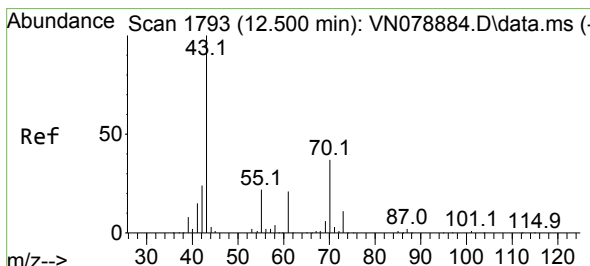
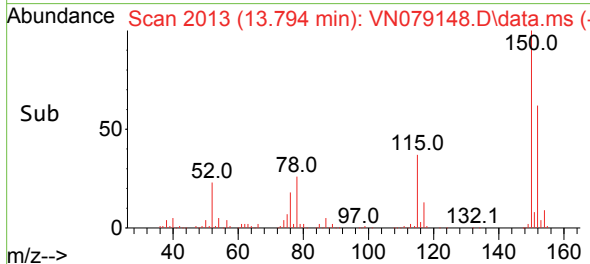
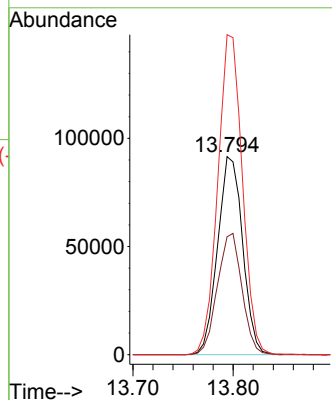
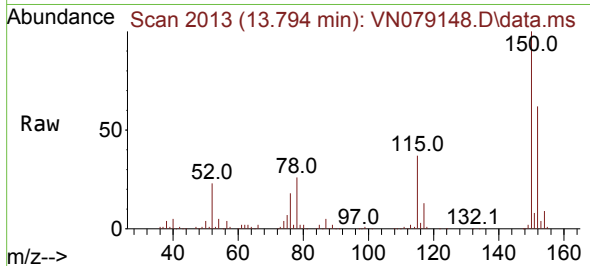




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN079148.D
 Acq: 02 Sep 2023 17:11

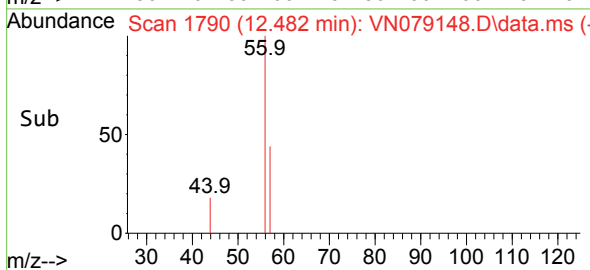
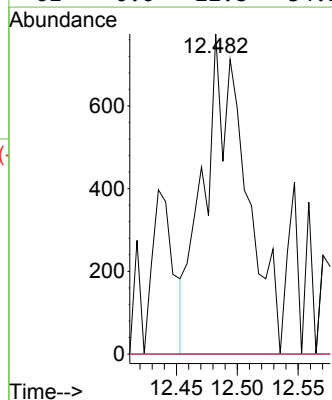
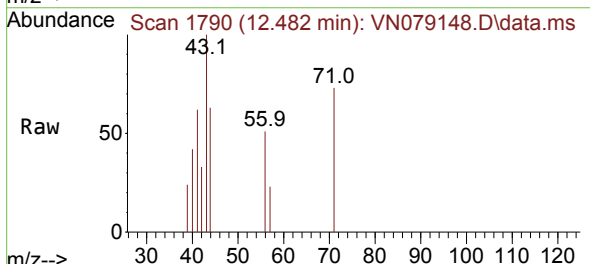
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1

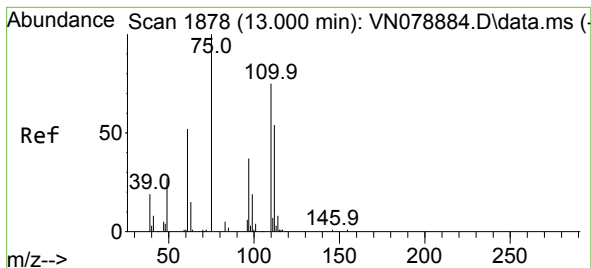
Tgt Ion:152 Resp: 158639
 Ion Ratio Lower Upper
 152 100
 115 60.1 32.3 96.8
 150 158.8 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.279 ug/l
 RT: 12.482 min Scan# 1790
 Delta R.T. -0.018 min
 Lab File: VN079148.D
 Acq: 02 Sep 2023 17:11

Tgt Ion: 43 Resp: 1860
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 0.0 21.4 32.0#
 61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 27.554 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079148.D

Acq: 02 Sep 2023 17:11

Instrument :

MSVOA_N

ClientSampleId :

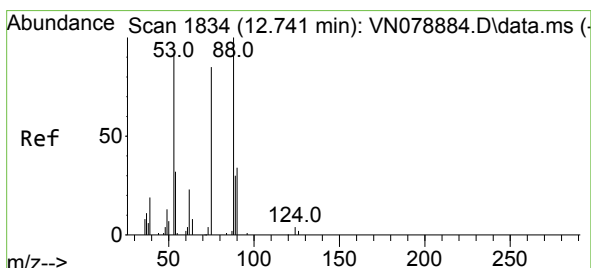
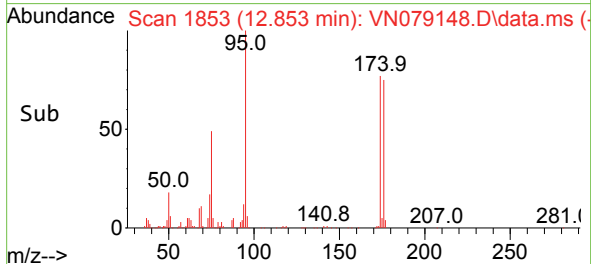
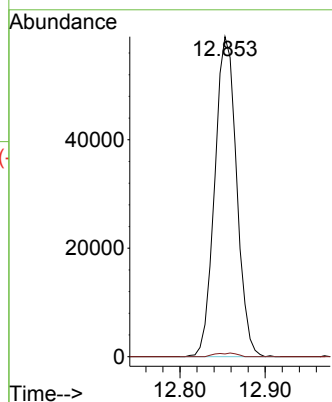
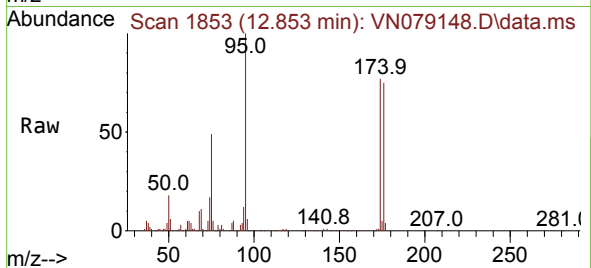
MW-1

Tgt Ion: 75 Resp: 105322

Ion Ratio Lower Upper

75 100

77 1.1 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.388 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN079148.D

Acq: 02 Sep 2023 17:11

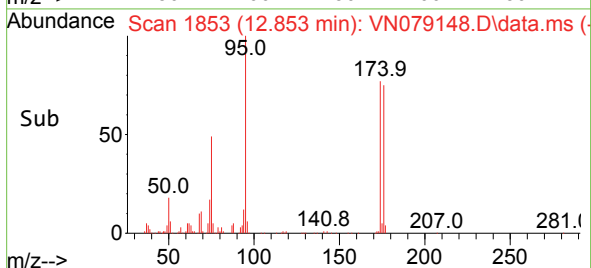
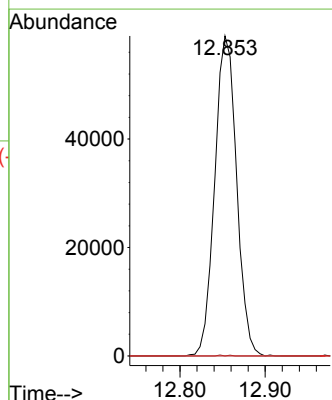
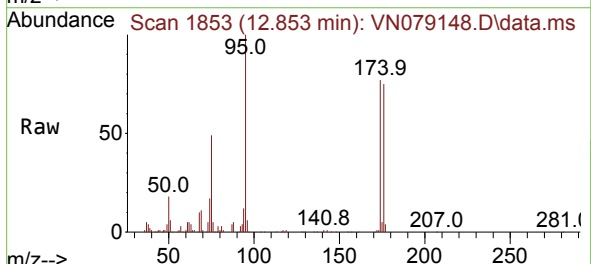
Tgt Ion: 75 Resp: 105322

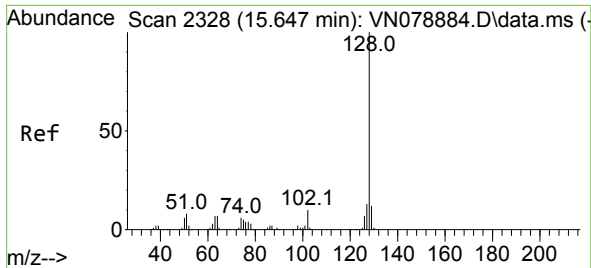
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#





#95

Naphthalene

Concen: 2.647 ug/l

RT: 15.647 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN079148.D

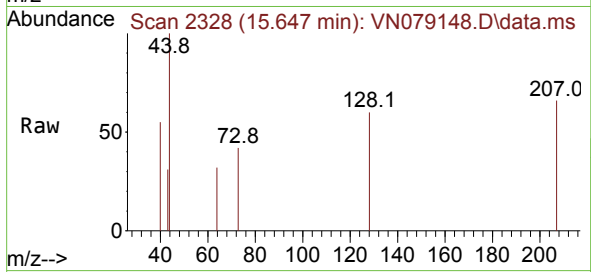
Acq: 02 Sep 2023 17:11

Instrument :

MSVOA_N

ClientSampleId :

MW-1



Tgt Ion:128 Resp: 557

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#

